

## TFLEX®-405 FLEXIBLE LOW LOSS CABLE

TFlex® has been widely adopted for both military and commercial communication systems. Its FEP jacket provides excellent protection in corrosive environments and its flexible nature eliminates the need for hand or precision machine bending.

### FEATURES

- Meets all MIL-DTL-17 requirements
- Excellent shielding effectiveness
- Low passive intermod (PIM)
- Uses standard solder-on connectors

### Mechanical Properties

	Units	
Diameter	in (mm)	0.104 (2.64)
Weight	lb/ft (kg/m)	0.015 (0.022)
Minimum Bend Radius	in(mm)	.250 (6.4)
Operating Temperature	°F (°C)	-85° to 267°(-65 to 125)

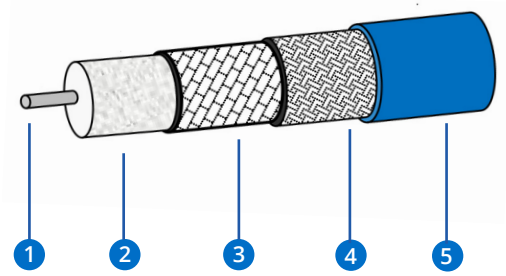
### Electrical Properties

	Units	
Impedance	Ω	50 +/- 2
Maximum Frequency	GHz	60
Capacitance	pF/ft (pF/m)	29.3 (96.1)
Velocity of Propagation		69.5%
Delay	ns/ft (ns/m)	1.46 (4.80)
Shielding		>100dB minimum
Operating Voltage	Volts RMS	1.5 kV
Jacket Spark	Volts RMS	2.0 kV

Attenuation	dB/ft	dB/m
400 MHz	.131	(.430)
1 GHz	.211	(.692)
3 GHz	.380	(1.24)
12 GHz	.830	(2.72)
18 GHz	1.06	(3.48)

### KEY APPLICATIONS

- Microwave Interconnects
- Flexible alternative to semi-rigid cables



- 1 Inner Conductor** Solid silver covered steel
- 2 Dielectric** Solid PTFE
- 3 Inner Shield** Silver plated copper flat ribbon
- 4 Outer Shield** Silver plated copper braid
- 5 Jacket** FEP

### WORLD HEADQUARTERS

358 Hall Avenue, Wallingford, CT 06492  
1-800-867-2629